

Soviet Bloc Economic Planning, by G. Sorokin, 14 pp.

RUSSIAN, per, Plan Khoz. No 12, 1963, pp 1-11.

JPRS 22854

USSR  
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Jan 64

246, 660

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**Causes of Decrease of Effectiveness of Capital Investments**  
**in the Mining Industry of USSR, by M. Kandyba, V.**  
**Panasenko, 10 pp.**  
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**JPRS 23357**

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**250,589**

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Econ  
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254, 391

R-40-63

Financing New Technology, by A. Kovaleva. (DC-8425)

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\*JPRS

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Economic Substantiation of Farm Production Structure,  
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RUSSIAN, per, Plan Khoz, No 1, 1964, pp 22-33.  
JPRS 24221

Sci-Agri  
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Effectiveness of the Introduction of Chemical  
Processes into Construction, by S. Yazykov, 8 pp.  
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Econ  
Apr 64

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Specialization in Plastics Production, by  
A. Nikolayev, 8 pp.  
RUSSIAN, per, Plan Khoz, No 1, 1964, pp 34-39.  
JPRS 24332

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Work on the Optimization of the Polish Industrial Development  
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JPRS 23527

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Mar 64

✓ 01  
251, 280



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System, 6 pp.  
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F. Grigoryants, 12 pp.  
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Jun 64

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Normative Manufacturing Cost and Labor  
Productivity, by V. Bocharov, L. Sal'nikova,  
12 pp.  
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The Application of Mathematical Methods in  
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A. Ambartsumov, 11 pp.  
RUSSIAN, per, Plan Khoz, No 2, 1964, pp 64-69.  
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RUSSIAN, per, Plan Khoz. No 2, 1964, pp 75-81.  
JPRS 24062

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Econ  
Apr-64

254, 264

It is Better to Plan the Delivery of Metals,  
by V. Faltsman, 6 pp.  
RUSSIAN, per, Plan Khoz, No 2, 1964, pp 82-84.  
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Sci - M/M  
Jun 64

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JPRS 24212

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Planning the Productivity of Labor, by  
V. Panfilov, 7 pp.  
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Yu. Kormnov, B. Ladygin, 12 pp.  
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An Important Reserve of Ferrous Metallurgy,  
by N. Tereshchenko, 10 pp.  
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by N. Tereshchenko, 8 pp.  
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Advanced Experience in and Proposals for Planning  
the Production of Rolled Metal, by D. Popov, 5 pp.  
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JPRS 242476

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of Rolled Iron, by D. Popov, 6 pp.  
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Economic Cooperation of CEMA Countries,  
by O. Bogomolov, 12 pp.  
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JPRS 24737

UXSSR  
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International Production Specialization and the  
Complex Development of Individual Socialist  
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Problems of Coordination of Scientific and  
Technical Research of CEMA Countries, by  
T. Azarov, 11 pp.  
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Specialization Problems in the Ferrous Metal  
Industry, by E. Gwadzinski, 12 pp.  
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JPRS 24737

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Cooperation in the Development of the Chemical  
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International Socialist Division of Labor in the  
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Results Achieved by the CEMA Permanent  
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P. Lewinski, 11 pp.  
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Actual Problems in Working Out the New  
Five Year Plan, by F. Kotoy, 16 pp.  
RUSSIAN, per, Plan Khoz, No 5, 1964, pp 1-12.  
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<sup>6</sup>  
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Plan, by F. Kotoy, 16 pp.  
RUSSIAN, per, Plan Khoz, No 5, 1964, pp 1-12.  
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Chemical Industry, by N. Fedorenko, by A. Bayn,  
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RUSSIAN, per, Plan Khoz, No 5, 1964, pp 24-232.  
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16 pp.  
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12 pp.  
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JPRS 25397

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RUSSIAN, per, Plan Khoz, No 6, 1964, pp 68-74.  
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Planning Problems in the Liberated Countries  
of Asia and Africa, by E. Utkin, 13 pp.  
RUSSIAN, per, Plan Khoz, No 6, 1964,  
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JPRS 25256

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Econ  
Jun 64

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Advantages of Mass Production, by I. Shikhov,  
11 pp.  
RUSSIAN, per, Plan Khoz, No 7, 1964, pp 27-32.  
JPRS 26753

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267,962



Methodological Problems of the Development of the  
New Five-Year Plan, by A. Kilinskiy, 7 pp.  
RUSSIAN, per, Plan Khoz. No 7, 1964, pp 90-93.  
JPRS 26261

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Jan 65

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Certain Results and Prospects of the Development  
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in, 11 pp.

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JPRS 27284

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in the Long-Term Plan, by V. Krasovskiy, 13 pp.

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271,599

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by N. Nekrasov, 13 pp.  
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JPRS 27090

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Jan 65

270,667

Specialization and Disproportion in the Economy  
of the Far East, by S. Mikhaylov, L. Yurkevich,  
10 pp.  
RUSSIAN, per, Plan Khoz, No 8, 1964, pp 16/-24.  
JPRS 27090

USSR-Siberia  
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Econ  
Jan 65

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by G. Smirnov, B. Zotov, et al, 14 pp.  
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Planning, by N. Voloshin, 9 pp.

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JPRS 28267

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Feb 65

274,040

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the Urals, by Yu. Zinov'yev, N. Vaysberg and Ye.

Puzako, 6pp

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JPRS 274,67

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271,876

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and A. Fomenko, 7pp

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RUSSIAN, per, Planovoye Khozyaystvo, No 9, Sept 1964,  
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272,984

Improvement of the organization of the Material  
and Technical Supply of the National Economy,  
by I. Durshteyn, N. Maso, 10 pp.  
RUSSIAN, per, Planovoye Khozyaystvo, No 10,  
Oct 1964, pp 1-6.  
JPRS 28736

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Specialization and Concentration of Foundries in  
Moskovskiy Sovnarkhoz, by R. Manilovskiy, 10 pp.  
RUSSIAN, per, Plan Khoz, No 10, 1964, pp 60-64.  
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RUSSIAN, per, Planovaya khozyaystvo, No 12, Dec  
64, pp 10-16.  
JPRS 29417

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RUSSIAN, per, Planovoye Khozyaystvo, No. 12,  
December 1964, pp. 32-38.  
JPRS 29357

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Distribution Of the Electric Power Load, by V.  
Ionov, 11 pp  
RUSSIAN, per, Planovoye Khozyaystvo, No 12, Dec  
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JPRS 29630

USSR  
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JPRS 29605

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Modern Equipment and Mechanization and Automation  
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JPRS 29544

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zation of Labor [NOT], by G. Kaganov, 5 pp  
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JPRS 2954.

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Synthetic Colloidal Solutions Used in Plasma  
Substitutes, by I. R. Petrov, A. N. Filatov, 54 pp.

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Chapter 9, 1958,

Navy Tr 3250/NMS 737

Sci - Med

217,527

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(DC-6438)

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Technical Workers and Employees, by V. I. Markov,  
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Platy Inzhenerno-Tekhnicheskikh Rabotnikov I  
Sluzhashchikh, 1961, pp 1-127.

JPRS 11992

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PLANNED EXPENDITURES FOR SOVIET RESEARCH  
INSTITUTIONS, BY L. V. POTSKHIN, I. B.  
ROZENFEL'D, ET AL, 35 PP.

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I KUL'TURNYKH MEROPRIYATIY, MOSCOW, 1962,  
PP 193-211.

JPRS 17265

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ECON  
JAN 63

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(NY-5148)

Plastic Deformation of Metals, by S. I. Gubkin,  
426 pp.

RUSSIAN, book Plasticheskaya Deformatsiya Metallov,  
Vol I, 1960, pp 1-376.

JPRS 9057

OTS 61-51519

Sci - Min/Met

Apr 61

146,638

(NY-5148)

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438 pp.

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JPRS 9220

Sci - Min/Metals

May 61

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(NY-6115)

Plastic Deformation of Metals, 340 pp.

RUSSIAN, bk, Plasticheskaya Deformatsiya Metallov,  
Vol III, 1960, pp 1-306.

JPRS 9373

Sci - Min/Metals

Jul 61

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Modern Methods of Increasing the Strength  
Properties of Steels and Alloys, by I. M.  
Pavlov, G. N. Mekhed, Wang Yu-Ming, 21 pp.  
RUSSIAN, bk, Plasticheskaya Deformatsiya  
Metallor, 1964, pp 3-18.  
JPRS 28859

N-2 90224E 1966 (65/386)

Sci-Mat & Mat  
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Deformation of Titanium Alloys, by I. M. Pavlov.  
RUSSIAN, It, Plasticheskaia Deformatsiia Metallov.  
Moscow, 1964, pp 28-31.  
\*FTL-TT-65-1087

Sci-M/M  
Jul 65

<p>Zal'kind, Yu. S. and Rostovskiy, Ye. N. THE PREPARATION OF DIETHYL CARBONATE AND ITS USES. {1960} 10p. (refs. omitted). Order from OTS or SLA \$1. 10</p> <p>Trans. of <u>Plasticheskiye Massy</u> (USSR) 1932, no. 2/4, p. 6-11.</p> <p>DESCRIPTORS: *Carbonates, Ethyl radicals, *Esters, Synthesis.</p> <p>(Unannounced)</p>	<p>60-18960</p> <p>I. Zal'kind, Yu. S. II. Rostovskiy, Ye. N.</p> <p>161575</p> <p>Office of Technical Services</p>
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Benzyl Dihydroxyadipate - A New Plasticizer, by S. N. Ushakov, A. A. Rozenfel'd, 14 pp.

RUSSIAN, per, Plastichiskie Massy, No 3, 1935,  
pp 4-8.

Sci Trans Center RT-892

Scientific - Chemistry  
CTS/DEK

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Basic Trends of Development in the Plastics  
Industry During 1959-1965, by M. I. Garbar,  
29 pp.

RUSSIAN, per, Plasticheskiye Massy, No 1, 1959,  
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FTD-MCL-728/1

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Plastics and Their Employment in the Bread  
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Tkachev.

RUSSIAN, bk, Plasticheskie Massy i Ikh  
Primenenie v Khlebopekarnoi i Drozhzhevoi  
Promyshlennosti, 1963, 224 pp.  
NLI RTS 31247 (On Loan)

Aug 65

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Plastics in the Electrotechnical Industry, by  
A. K. Vardenberg.  
RUSSIAN, bk, Plasticheskiye Massy v Elektro-  
tekhnikeskoy Promyshlennosti, 3rd Ed., Rev  
& Enlg, Polimery v Elektroizolyatsionnoy  
Tekhnike, Vol V, 1963, 296 pp.  
\*FTD-MT-64-281

Sci-Elec  
Jul 64

Co-Polymerization of Ethylene With Propylene  
in the Presence of Metal-Organic-Metal-Halide  
Compounds of Variable Valence, by N. M. Yegorov,  
et al.

RUSSIAN, per, Plasticheskiye Massy, No 1, 1959,  
p 10.

\*ATIC MEL 850

Sci - Chem

28 Feb 61

Yegorov, N. M., Andreyeva, I. N. and others.  
CO-POLYMERIZATION OF ETHYLENE AND PROPYLENE IN THE PRESENCE OF ORGANIC-METALLIC COMPOUNDS AND HALIDES OF METALS OF VARIABLE VALENCY. [1961] [20]p. 10 refs. [DSIR LLU]

M 2962.

Order from OTS or SLA \$1.60

61-23370

Trans. of Plasticheskiye Massy (USSR) 1959, no. 1, p. 10-16.

DESCRIPTORS: \*Copolymerization, \*Ethylenes, \*Propylenes, Polymers, \*Metalorganic compounds, Aluminum compounds, Halides, \*Catalysts.

Under conditions of mutual polymerization, ethylene and propylene form a copolymer. The possibility is demonstrated of producing a compositionally uniform copolymer. Results were obtained which characterize the basic laws governing the ethylene-propylene copolymerization process in the presence of organo-metallic (Chemistry--Organic, TT, v. 6, no. 3) (over)

61-23370

I. Yegorov, N. M.  
II. Andreyeva, I. N.  
III. DSIR LLU M.2962

175381

Office of Technical Services

Arkhipova, Z. V., Semenova, A. S. and others.  
PRODUCTION OF POLYETHYLENE AT REDUCED  
PRESSURES USING CHROMIUM OXIDES ON ALUMI-  
NOSILICATES AS CATALYSTS. [1961] [13]p. 9 refs.  
[DSIR L.L.U] M. 2963.  
Order from OTS or SLA \$1.60

61-23369

Trans. of Plasticheskiye Massy (USSR) 1959, no. 1,  
p. 17-20.

DESCRIPTORS: \*Polymers, \*Ethylenes, Synthesis,  
Pressure, Catalysts, Chromium compounds, Oxides,  
Aluminum compounds, silicates

Experiments showed that the major factors determining  
the molecular weight and mechanical properties of the  
polymer are the polymerization temperature, the cata-  
lyst activation temperature and the pressure used in the  
polymerization process. The activity of the catalyst is  
determined by the conditions under which it is prepared

(Materials--Plastics, TT, v. 6, no. 3)

(over)

61-23369

I. Arkhipova, Z. V.  
II. Semenova, A. S.  
III. DSIR L.L.U M. 2963

175380

Office of Technical Services

Synthesis of High-Strength Materials Based on  
Inoculated Styrene Polymers, by A. V. Golubeva,  
et al.

RUSSIAN, per, *Plasticheskiye Massy*, No 1, 1959,  
pp 21-25.

MLL M. 2964

OTIS 1183767

Sci

Feb 62

186,903

Lukovenko, T. M., LI, P. Z., and Akumin, M. S.  
LAMINATED PLASTICS BASED ON GLASS FIBERS.  
PT. I PRODUCTION OF EPOXY-PHENOLIC GLASS  
LAMINATES. [1961] [10]p. 7 refs. [DSIR LLU] M 2965.  
Order from OTS or SLA \$1.10 61-23367

Trans. of Plasticheskie Massy (USSR) 1959, no. 1,  
p. 26-29.

DESCRIPTORS: \*Laminated glass, Production,  
\*Plastics, Glass, Glass textile, Epoxy resins, Phen-  
olic resins, Resins.

Glass laminates made by using epoxy-phenolic resins  
have a considerable heat resistance. The tensile  
strength of epoxy-phenolic glass laminate after re-  
peated heat treatment for 25 hours at a temperature of  
200°C is 3,000 to 3,600 kg/cm<sup>2</sup>. The tensile strength  
of epoxy-phenolic glass laminate after heat treatment  
varies at 150°C between 1,900 and 2,200 kg/cm<sup>2</sup>; at  
200°C between 1,700 and 2,200 kg/cm<sup>2</sup>; and at 300°C  
(Materials--Plastics, TT, v. 6, no. 4) (over)

61-23367

I. Lukovenko, T. M.  
II. LI, P. Z.  
III. Akumin, M. S.  
IV. DSIR LLU M. 2965

177716

Office of Technical Services



Gorbunov, V. N.  
ON THE PRODUCTION OF UREA-FORMALDEHYDE  
RESINS AT ELEVATED TEMPERATURES. [1961]  
[6]p. 5 refs. [DSIR LLU] M 2966.  
Order from OTS or SLA \$1.10

61-23366

Trans. of Plasticheskiye Massy (USSR) 1959, no. 1,  
p. 30-31.

DESCRIPTORS: \*Urea-formaldehyde resins, Production,  
Temperature, Plastics, Resins.

Tests show that the various types of carbamide resin  
made by high-temperature condensation constitute use-  
ful technical products and have certain valuable techno-  
logical properties not possessed by the resins made  
under normal conditions.

(Materials--Plastics, TT, v. 6, no. 3)

61-23366

I. Gorbunov, V. N.  
II. DSIR LLU M. 2966

175379

Office of Technical Services

Akutin, M. S., Rodivilova, L. A., and Baybakov, K. P.

ON THE TWO-PHASE METHOD OF POLYCONDENSATION. [1961] [8]p. 6 refs. [DSIR LLU] M 2967.  
Order from OTS or SLA \$1.10

61-23365

Trans. of Plasticheskiye Massy (USSR) 1959, no. 1, p. 32-34.

DESCRIPTORS: \*Condensation reactions, \*Polymers, \*Amides, Anhydrides, Amines, Chlorides, Acids.

The conditions were studied for the production of polyamides by the two-phase method, using the reaction between the dichloranhydrides of adipic or sebacic acids and hexamethylene diamine. The factors investigated included time of polycondensation, solution concentration, nature of the solvent, and ratio of reagents. The dichloranhydrides of the divalent acids were prepared by reacting the corresponding divalent acids with thionyl chloride.  
(Materials--Plastics, TT, v. 6, no. 3)

61-23365

I. Akutin, M. S.  
II. Rodivilova, L. A.  
III. Baybakov, K. P.  
IV. DSIR LLU M. 2967

7687

Office of Technical Services

The New Compact Powder Plastic FAK-4, by  
V. A. Zakharov, V. I. Zakharova, G. N.  
Nadezhkina, 21 pp.

RUSSIAN, per, Plasticheskiye Massy, No 1, 1959,  
pp ~~43-49~~ 9670568  
39-40

FTD-MIL-728/1

Sci - Chem

Aug 61

164,288  
NLL ml. 2967

New Synthetic Glues for the Cementing of  
Metals and Non-Metallic Materials, by  
D. A. Kardashov, M. V. Sobolevskiy, et al,  
33 pp.

RUSSIAN, per, Plasticheskiye Massy, No 1, 1959,  
pp ~~96-98~~ 9670568

44-64

NEL 11.2969

FED-MCL-728/1

Sci - Chem

164, 289

Aug 61

(BF-1332)

Ion-Exchange Membranes, by V. S. Titov, 14 pp.

RUSSIAN, per, Plasticheskiye Massy, No 1, 1960,  
pp 55-59.

JPRS 4336

Sci - Chem

Feb 61

139, 259

Kamenskii, I. V., Smirnova, E. P., and Tsapelev, A. S.

**MELAMINE-ACETONE-FORMALDEHYDE RESINS.**

14 Jan 63 [Sp] 6 refs

Order from OTS or SLA \$1.10

63-18895

Trans. of *Plasticheskie Massy (USSR)* 1960, no. 2, p. 17-19.

**DESCRIPTORS:** \*Melamine-formaldehyde resins, \*Acetones, \*Amino plastics, \*Laminated plastics, Thermosetting plastics, \*Glass textiles, Fire-resistant textiles, Physical properties, Dielectric properties, Condensation reactions

The possibility of obtaining a new form of melamine-formaldehyde (M-F) modifying these with acetone, introduced into the reaction after formation of the hydroxymethyl derivatives of melamine is shown. The M-acetone-F resins synthesized differ from the un- (Materials--Plastics, TT, v. 10, no. 10) (over)

63-18895

**I. Title: Melamine-acetone-formaldehyde resins**

- I. Kamenskii, I. V.
- II. Smirnova, E. P.
- III. Tsapelev, A. S.

Office of Technical Services

New Polymers of the Catalytic Polymerization of  
Organosiloxanes, by K.A. Andrianov, S.I. Dzhanchel'-  
skaya, Ju. K. Petrashko.

RUSSIAN, per, Plasticheskiye Massy, No 3, 1960,  
pp 20-23. 9661814.

ATTC MCL 729/1-2

Sci - Chem  
Jun 61

155556

Conversion of Poly(Ethylene Terephthalate) to  
Film, by N. V. Andrianova.  
RUSSIAN, per, Plast Massy, No 4, 1960, pp 18-27.  
ATS-4883

Sci  
Dec 68

368,751



(NY-4789)

On the Production and Application of  
Glass-Reinforced Plastics, by I. Trandafilova,  
8 pp.

RUSSIAN, per, Plasticheskiy Massy, No 4, 1960,  
pp 71-73.

JPRS 5930

Sci - Chem

Nov 60

131, 671

Glukhov, E. E. and Klaz, S. I.  
RHEOLOGY PROBLEMS IN THE MANUFACTURE OF  
ARTICLES FROM PLASTICS. [1963] 7p. 20 refs.  
Order from OTS or SLA \$1.10 63-16977

Trans. of ~~Plasticheskie Massy~~ (USSR) 1960, no. 5,  
p. 22-25.

DESCRIPTORS: \*Plastics, Manufacturing methods,  
Fluid flow, Elasticity, Viscosity, Plasticity.

Establishing the behavior patterns of flow should make  
it possible to resolve the fundamental technical  
problem: determining the optimum operational regimes,  
as well as the design of extrusion and die-casting  
equipment. The nature of the flow of plastics when  
they are utilized in the manufacture of articles from  
them is governed largely by the relationship between  
the forces of internal and external friction, together  
with the relaxational properties. The principal proper-  
(Materials--Plastics, TT, v. 10, no. 6) (over)

63-16977

I. Glukhov, E. E.  
II. Klaz, S. I.

Office of Technical Services

A Method for Measuring Polymer Decomposition Temper-  
atures, by O. Ya. Fedotova, S. A. Zakoashchikov. 9227310  
RUSSIAN, per. Plasticheskiye Massy, No 5, 1960, pp 64, 65.  
DRB Canada T 420 R

NLL 3546 1965 T-420 R

Sci - Phys  
Jun 65

279,621

63-18892

Terent'ev, A. P., Luskina, B. M., and Syavtsillo,  
S. V.

DETERMINATION OF CARBON IMPURITIES IN  
SILICON-COPPER ALLOYS. 27 jun 63 [6p] 4refs  
Order from OTS or SLA \$1.10 63-18892

Trans. of Plasticheskie Massy (USSR) 1960, no. 5,  
p. 65-66.

DESCRIPTORS: \*Silicon alloys, \*Copper alloys,  
\*Carbon, \*Impurities, Chemical analysis, Quantitative  
analysis, \*Silanes, \*Catalysts.

I. Terent'ev, A. P.  
II. Luskina, B. M.  
III. Syavtsillo, S. V.

(Chemistry--Analytical, TT, v. 10, no. 10)

Office of Technical Services

Akutin, M. S., Parlashkevich, N. Ya. and others.  
PREPARATION OF BLOCK AND GRAFT COPOLY-  
MERS WITH THE AID OF A SPARK DISCHARGE IN  
A LIQUID. [1960] 6p.  
Order from ATS \$9.30

ATS-27M46R

Trans. of Plasticheskiye Massy (USSR) 1960, no. 6,  
p. 2-5.

146,910

(Materials--Plastics, TT, v. 5, no. 5)

61-12342

1. Polymers--Synthesis
2. Electric discharges--  
Chemical effects
3. Copolymerization
4. Title: Graft copolymers
5. Title: Block copolymers
- I. Akutin, M. S.
- II. Parlashkevich, N. Ya.
- III. ATS-27M46R
- IV. Associated Technical  
Services, Inc., East  
Orange, N. J.

Office of Technical Services

On the Origin of the Products of the  
Pyrolysis of Phenol-Formaldehyde Tar,  
by V. D. Moiseyev, M. B. Neyman, 8 pp.  
RUSSIAN, per, Plasticheskiy Massy,  
No 6, 1960, pp 11-13. 9696618  
FTD-TT-64-997

Sci - Phys  
Apr 65

278,331

Organic Mineral Concrete Without Cement, by V. I.  
Itinskiy, I. V. Kamenskiy, 3 pp.

RUSSIAN, per, Plasticheskiye Massy, No 6, 1960,  
pp 19-22. 9091426

OTS 61-31063/5 7  
PL-480

2/1, 265

Sci - Min/Met

Sep 62

PST 590

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